

COMPOUNDS AND METHODS FOR MODULATING  
CLAUDIN-MEDIATED FUNCTIONS

Abstract of the Disclosure

Methods for using modulating agents to enhance or inhibit claudin-mediated cell adhesion in a variety of *in vivo* and *in vitro* contexts are provided. Within certain embodiments, the modulating agents may be used to increase blood/brain barrier permeability. The modulating agents comprise at least one claudin cell adhesion recognition sequence or an antibody or fragment thereof that specifically binds the claudin cell adhesion recognition sequence. Modulating agents may additionally comprise one or more cell adhesion recognition sequences recognized by other adhesion molecules. Such modulating agents may, but need not, be linked to a targeting agent, drug and/or support material.